

Title (en)  
WEIGHTED RANDOM PATTERN TEST USING PRE-STORED WEIGHTS

Title (de)  
GEWICHTETER ZUFALLSMUSTERTEST MIT VORGESPEICHERTEN GEWICHTEN

Title (fr)  
TEST ALEATOIRE ET PONDERE DE MOTIFS AU MOYEN DE PONDERATIONS PREENREGISTREES

Publication  
**EP 1348134 B1 20051019 (EN)**

Application  
**EP 01991603 A 20011218**

Priority  
• US 0150807 W 20011218  
• US 75020000 A 20001227

Abstract (en)  
[origin: WO02052288A2] An apparatus and method of testing an integrated circuit by downloading a sequence of randomly weighted bits into a scan chain in which each bit has a distinctly determined weight generated in real-time by a weight generator. The weight generator has a switch controlled by a stored bit particular for each bit of the randomly weighted bits that determined the weight of the bit. The control signal is stored in a memory that is downloaded into the switch in synchronization with the generation of the bit. Preferably, the memory is on-die, and furthermore is a part of the integrated circuit.

IPC 1-7  
**G01R 31/3185**

IPC 8 full level  
**G01R 31/28** (2006.01); **G01R 31/3183** (2006.01); **G01R 31/3185** (2006.01); **G06F 11/22** (2006.01); **H01L 21/822** (2006.01); **H01L 27/04** (2006.01)

CPC (source: EP KR US)  
**G01R 31/318385** (2013.01 - EP US); **G01R 31/318547** (2013.01 - EP US); **G06F 11/27** (2013.01 - KR)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 02052288 A2 20020704; WO 02052288 A3 20030501**; AT E307343 T1 20051115; AU 2002231329 A1 20020708; CN 1249445 C 20060405; CN 1502045 A 20040602; DE 60114233 D1 20051124; DE 60114233 T2 20060720; EP 1348134 A2 20031001; EP 1348134 B1 20051019; HK 1058066 A1 20040430; JP 2004520579 A 20040708; JP 3950798 B2 20070801; KR 100690941 B1 20070309; KR 100717207 B1 20070511; KR 20030063470 A 20030728; KR 20050094900 A 20050928; MY 127367 A 20061130; TW 561269 B 20031111; US 2003074615 A1 20030417; US 6795948 B2 20040921

DOCDB simple family (application)  
**US 0150807 W 20011218**; AT 01991603 T 20011218; AU 2002231329 A 20011218; CN 01822889 A 20011218; DE 60114233 T 20011218; EP 01991603 A 20011218; HK 04100805 A 20040206; JP 2002553135 A 20011218; KR 20037008634 A 20030625; KR 20057015116 A 20050817; MY PI20015420 A 20011127; TW 90131660 A 20011220; US 75020000 A 20001227